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Nov 26, 1990

DERWENT-ACC-NO: 1991-012364

DERWENT-WEEK: 199102

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TITLE: Insecticidal compsn. with antibacterial action - made by extracting e.g. dried grapefruit seeds with ethanol

PATENT-ASSIGNEE:

ASSIGNEE

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CODE

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PRIORITY-DATA: 1989JP-0104711 (April 26, 1989)

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PATENT-FAMILY:

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MAIN-IPC

☐ JP 02286608 A

November 26, 1990

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APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP 02286608A

April 26, 1989

1989JP-0104711

INT-CL (IPC): A01N 37/12; A01N 61/00; A01N 65/00

ABSTRACTED-PUB-NO: JP 02286608A

BASIC-ABSTRACT:

An insecticidal compsn. contains a bactericidal seed extract of Citrus plants and (poly)glycerin fatty acid ester(s).

Seed oil having antibacterial activity, e.g. grapefruit, lemon and orange, is extracted with solvents, e.g. acetone, alcohols, glycerin and propylene glycol. The oil is mixed with (poly)glycerin fatty acid esters, e.g. oleic acid, linoleic acid, ricinoleic acid and linolenic acid at ratios of 1:0.0001-1, pref. 1:0.00005-0.5 pts. wt. The seed extract and (poly)glycerin fatty acid ester are contained in the compsn. at about 1-80, pref. 5-70%, and at about 0.0001-30, pref. 0.002-25%, respectively. Alcohols, glycerin or propylene glycol are opt. added.

USE/ADVANTAGE - Synergistic antibacterial compsn. can reduce the required quantity of the extract.

In an example, 1kg of dried seeds of grapefruit was extracted with 5 L of ethanol for 24 hrs. and the extract was condensed to give about 25 g of prod. which was dissolved in 25 g of glycerin to give a mixt. (A). Polyglycerin laurate was added to the mixt. (A) at a rate of 0.2% to give a compsn. (B). The compsn. (A) and (B)

showed inhibitory activity against B. subtilis, Staph. aureus and Salm. typhimurium at concns. of 31.30 and 7.80, 3.90 and 2.0, and 15.60 and 7.8, respectively.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: INSECT COMPOSITION ANTIBACTERIAL ACTION MADE EXTRACT DRY GRAPEFRUIT SEED ETHANOL

DERWENT-CLASS: C03

CPI-CODES: C04-A07F2; C04-C03D; C10-E04C; C12-A01; C12-C09; C12-N02;

CHEMICAL-CODES:

Chemical Indexing M1 *02*

Fragmentation Code

H401 H402 H403 H404 H405 H481 H482 H483 H484 H589
H721 H722 H723 J0 J014 J2 J271 J272 J273 M225
M226 M231 M262 M281 M282 M283 M313 M316 M321 M322
M323 M331 M332 M342 M381 M383 M391 M392 M393 M423
M431 M510 M520 M530 M540 M782 M903 P002 P341 P862
V743

Chemical Indexing M1 *03*

Fragmentation Code

M423 M431 M782 M903 P002 P220 P341 V400 V404

Chemical Indexing M2 *01*

Fragmentation Code

H401 H402 H403 H481 H482 H483 H721 H722 H723 J0
J011 J012 J013 J2 J271 J272 J273 M225 M226 M231
M262 M280 M281 M282 M283 M313 M316 M321 M322 M323
M331 M332 M342 M343 M381 M383 M391 M392 M393 M416
M431 M620 M782 M903 M904 P002 P341 P862
Markush Compounds
199102-70701-M

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-005571

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